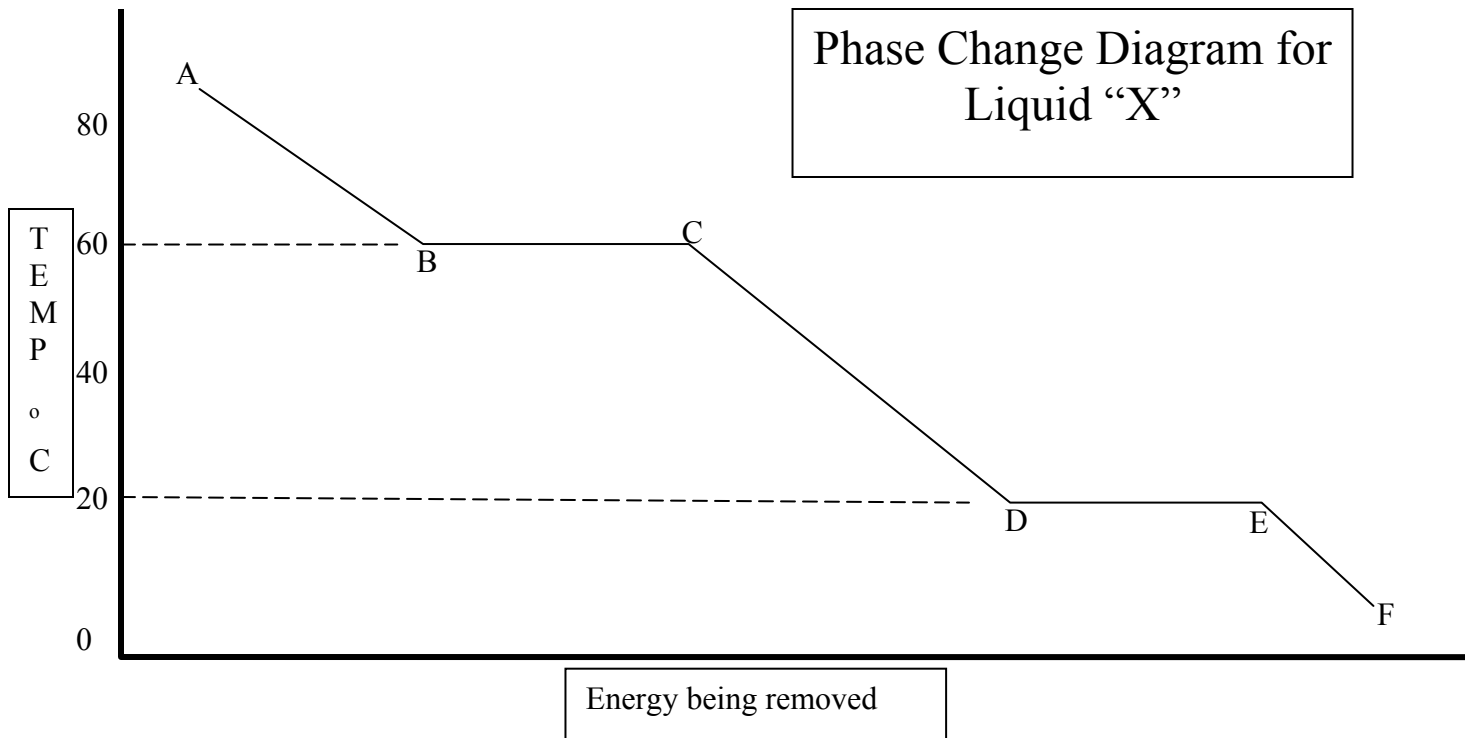


Name _____ Date _____ Period _____

Phase Change Diagram (Energy Removed from Substance)



- 1.) What is the temperature of the freezing point of this substance? _____
- 2.) What is the temperature of the condensation point of this substance? _____
- 3.) Is energy being added or removed in order to cause the phase changes shown in the graph? _____
- 4.) Between which two letters is the substance 100% liquid? _____
- 5.) What is the actual temperature of the melting point of this substance? _____
- 6.) What letter represents the point where condensation first begins? _____
- 7.) What letter represents the point where freezing first begins? _____
- 8.) Between which two letters on the graph is the substance a solid? _____
- 9.) Between which letters on the graph is the substance a gas that is cooling? _____
- 10.) Between which two letters on the graph is the substance 100% vapor? _____

Endothermic means heat is going into a substance

Exothermic means heat is leaving a substance

- 11.) Is freezing an endothermic or exothermic process? _____
- 12.) Is condensation an endothermic or exothermic process? _____
- 13.) What is sublimation? _____
- 14.) What is the word used to describe water (or any liquid) changing from a liquid to a gas "below its boiling point"? _____